

Title (en)
Dynamic allocation of radio resources

Title (de)
Dynamische Zuweisung der Funkbetriebsmittel

Title (fr)
Attribution dynamique de ressources radio

Publication
EP 1589776 A1 20051026 (EN)

Application
EP 04101597 A 20040419

Priority
EP 04101597 A 20040419

Abstract (en)
Radio resources are allocated to communication between a mobile station (40) and a base station (20). The available set of radio resources may comprise radio resources primarily assigned to a neighbouring cell if the mobile station (40) experience an instantaneous low level of co-channel interference from such neighbouring cells. The existence of interference is preferably deduced from signal quality measurements of pilot signals. The allocation may concern uplink and/or downlink (54) communication. Devices (41) for performing the measurements are located in the mobile station (40), while devices for performing the evaluation (22), selection (23) and actual allocation (24) can be placed in different parts of the communications system - in the mobile station (40), in a base station (20) or in a core network node (70), or as a distributed means. <IMAGE>

IPC 1-7
H04Q 7/38; **H04Q 7/36**

IPC 8 full level
H04W 72/00 (2009.01); **H04W 16/10** (2009.01); **H04W 72/08** (2009.01)

CPC (source: EP KR US)
H04W 16/10 (2013.01 - EP KR US); **H04W 72/54** (2023.01 - KR); **H04W 88/18** (2013.01 - KR); **H04W 72/54** (2023.01 - EP US)

Citation (search report)

- [X] US 6498934 B1 20021224 - MULLER WALTER [SE]
- [A] US 6636736 B1 20031021 - BILLON THIERRY [FR]
- [A] WO 9715995 A1 19970501 - UNIV NEW YORK STATE RES FOUND [US]
- [A] US 5519884 A 19960521 - DUQUE-ANTON JESUS-MANUEL [DE], et al

Cited by
EP2242296A4; KR101287949B1; CN102395132A; EP1786228A1; EP2519069A4; US10231246B2; WO2013058688A2; US10274602B2; US8280394B2; US8611822B2; US8320395B2; US9155100B2; WO2008056032A1; WO2010009159A1; WO2009019074A1; WO2016010962A1; KR101039334B1; WO2008003821A1; WO2008003815A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1589776 A1 20051026; AT E410898 T1 20081015; AU 2005234534 A1 20051027; AU 2005234534 B2 20090625; CA 2559448 A1 20051027; CA 2559448 C 20131217; CN 1943263 A 20070404; CN 1943263 B 20120509; DE 602005010233 D1 20081120; EP 1741307 A1 20070110; EP 1741307 B1 20081008; HK 1105063 A1 20080201; JP 2007533224 A 20071115; JP 4695135 B2 20110608; KR 100891848 B1 20090407; KR 20060133032 A 20061222; PL 1741307 T3 20090430; RU 2006140807 A 20080527; RU 2378762 C2 20100110; TW 200621056 A 20060616; TW I388226 B 20130301; US 2007249361 A1 20071025; US 2011136496 A1 20110609; US 7912475 B2 20110322; WO 2005101882 A1 20051027

DOCDB simple family (application)
EP 04101597 A 20040419; AT 05717153 T 20050329; AU 2005234534 A 20050329; CA 2559448 A 20050329; CN 200580011594 A 20050329; DE 602005010233 T 20050329; EP 05717153 A 20050329; EP 2005051408 W 20050329; HK 07110247 A 20070920; JP 2007507792 A 20050329; KR 20067021603 A 20061018; PL 05717153 T 20050329; RU 2006140807 A 20050329; TW 94109798 A 20050329; US 201113026724 A 20110214; US 57851505 A 20050329